Exceptional service in the national interest









Oahu Storage Study

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Oahu Storage Study



- Motivation
 - With a 100% RPS by 2045, energy storage seems logical
 - What is the value of storage in the near term?
- Model Design
 - System year 2018
 - 2014 hourly load, utility solar, and wind data from HECO
 - 2014 distributed solar data generated at Sandia
 - BESS is allowed to either perform Arbitrage or supply Contingency Reserve, but not do both
 - Three main sensitivities were performed:
 - BESS sizes: 50 MW, 100 MW, and 150 MW (all with ½ hr storage capacity)
 - With and without a Renewable Reserve
 - With and without a Quick Start Reserve backup for a BESS supplying contingency reserve